Astronomy, B.S.

**GE CLAS Core**
The College of Liberal Arts and Sciences GE CLAS Core requirements provide students with a broad foundation of knowledge and a focused practice of transferable skills necessary for a lifetime of learning.

GE CLAS Core courses are particularly valuable for students making the transition into the University of Iowa. They help students understand the academic expectations of the College of Liberal Arts and Sciences while providing the knowledge and skills needed for more advanced work in the major.

All students in the College of Liberal Arts and Sciences who wish to earn an undergraduate degree—Bachelor of Arts (B.A.), Bachelor of Science (B.S.), Bachelor of Fine Arts (B.F.A.), or Bachelor of Music (B.M.)—must complete the requirements of the GE CLAS Core.

**GE CLAS Core Areas and Requirements**
The GE CLAS Core has 11 required areas, grouped into three categories. Students must fulfill the requirements in each GE CLAS Core area. The requirements below are for students who entered the University of Iowa during Summer 2017 or after. Students who entered during a previous semester are held to different requirements as indicated on a student’s degree audit.

**Communication and Literacy**

- **Rhetoric** [p. 1]: a minimum of 4 s.h.
- **World Languages** [p. 2]: required credit varies by language (see "World Languages" below)
- **Interpretation of Literature** [p. 2]: a minimum of 3 s.h.

**Natural, Quantitative, and Social Sciences:**

- **Natural Sciences** [p. 5]: a minimum of 7 s.h.; must include one lab
- **Quantitative or Formal Reasoning** [p. 6]: a minimum of 3 s.h.
- **Social Sciences** [p. 6]: a minimum of 3 s.h.

**Culture, Society, and the Arts:**

- **Diversity and Inclusion** [p. 7]: a minimum of 3 s.h.
- **Historical Perspectives** [p. 8]: a minimum of 3 s.h.
- **International and Global Issues** [p. 9]: a minimum of 3 s.h.
- **Literary, Visual, and Performing Arts** [p. 10]: a minimum of 3 s.h.
- **Values and Culture** [p. 11]: a minimum of 3 s.h.

Students may count transfer credit and/or credit by exam toward some GE CLAS Core requirements. See CLAS Core Policies for details regarding use of transfer credit, credit by exam, and other policies for how GE CLAS Core requirements may be fulfilled.

**Communication and Literacy**

**Rhetoric**

Rhetoric courses develop speaking, writing, listening, and critical reading skills and build competence in research, analysis, and argumentation.

All entering first-year students are required to complete RHET:1030 Rhetoric (4-5 s.h.). Because rhetorical skills lay the foundation for further study at the University, most students register for RHET:1030 during their first year at Iowa. Students in some majors, such as English or journalism and mass communication, enroll in RHET:1030 during their first semester.

Students who must enroll in English as a Second Language (ESL) courses as determined by their English proficiency evaluation must complete all ESL courses before they may register for RHET:1030 Rhetoric.

Students who have transfer credit in composition, speech, and argumentation but have not been granted an A.A. degree must complete the equivalent of RHET:1030 Rhetoric and often must take RHET:1040 Writing and Reading or RHET:1060 Speaking and Reading in addition to their transfer courses in composition and/or speech.

Each entering student’s degree audit shows the course(s) that must be completed in order to fulfill the Rhetoric requirement. The following courses are approved for the Rhetoric area.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHET:1030</td>
<td>Rhetoric</td>
<td>4-5</td>
</tr>
<tr>
<td>RHET:1040</td>
<td>Writing and Reading</td>
<td>3</td>
</tr>
<tr>
<td>RHET:1060</td>
<td>Speaking and Reading</td>
<td>3</td>
</tr>
</tbody>
</table>

**Transfer of Credit for Rhetoric**

Transfer students who have been granted an Associate of Arts (A.A.) degree from an Iowa community college, Waldorf College in Iowa, or Black Hawk College in Illinois have satisfied the Rhetoric requirement.

Transfer credit for students without an A.A. degree is evaluated as follows:

- transfer students who have completed composition I, composition II, and speech at another institution have satisfied the GE CLAS Core Rhetoric requirement of RHET:1030 Rhetoric;
- transfer students who have completed only composition I must complete RHET:1030 Rhetoric at the University of Iowa;
- transfer students who have completed composition I and speech must complete RHET:1040 Writing and Reading at the University of Iowa;
- transfer students who have completed only speech must complete RHET:1040 Writing and Reading at the University of Iowa;
- transfer students who have completed composition I and II or only composition II must complete RHET:1060 Speaking and Reading at the University of Iowa;
- transfer students who have completed any other course at another institution that may be equivalent to RHET:1030 Rhetoric, the University of Iowa Office of Admissions examines the content of the course and decides on equivalency based on the content of that course, conferring with the Department of Rhetoric on the correct equivalency, if necessary.
Interpretation of Literature
Courses in the Interpretation of Literature area focus on the major genres of literature (short and long fiction, nonfiction, poetry, and drama), improving students' abilities to read and analyze a variety of texts. Small group discussions in these courses challenge students to think critically, to share insights, and to listen thoughtfully to the arguments of others.

All students must complete at least 3 s.h. of coursework in the Interpretation of Literature area. The following courses are approved for the area.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLSA:1200</td>
<td>Interpretation of Ancient Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL:1200</td>
<td>The Interpretation of Literature</td>
<td>3</td>
</tr>
<tr>
<td>FREN:1005</td>
<td>Texts and Contexts: French-Speaking World</td>
<td>3</td>
</tr>
<tr>
<td>FREN:1007</td>
<td>Nature/Ecology French Philosophy and Fiction</td>
<td>3</td>
</tr>
<tr>
<td>WLCC:1510/ASIA:1510</td>
<td>Ghost Stories and Tales of the Weird in Premodern Chinese Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

World Languages
GE CLAS Core courses in World Languages provide the practice of important communication skills in a second language as well as the knowledge of the cultures in which the language is spoken. This in-depth study allows students to better understand how languages as a whole function, encouraging students to learn more about their own first language, including how it creates both inclusion and diversity. To fulfill the GE CLAS Core requirement in World Languages, students may choose one of the following options:

- complete four years of a single world language in high school; or
- achieve the fourth level of proficiency in a world language by completing the appropriate sequence of courses offered at the University of Iowa; or
- achieve the fourth level of proficiency by completing appropriate courses at another college or university or through approved study abroad courses; or
- achieve an equivalent score on a related Advanced Placement, International Baccalaureate, or other approved college-level examination accepted by the University of Iowa and the College of Liberal Arts and Sciences (see Credit By Exam Options on the Office of Admissions website); or
- earn an equivalent score on both a UI written placement test and on a UI oral proficiency exam in a language taught at the University of Iowa (see World Languages Placement Test (WLPT) on the New Student Services website); or
- earn an equivalent score on a proficiency exam in a language that is not taught at the University of Iowa (see Proficiency Examinations for Languages Not Taught at UI on the College of Liberal Arts and Sciences website).

A fourth level of proficiency is equivalent to the successful completion of an intermediate II language course (or of a second-year second semester course, for example) as taught at the University of Iowa. Depending on a student's placement test results and the language taken, a student may need to take four semesters of a language, starting with a beginning course and ending with a second semester intermediate course. Other students may be able to start elsewhere in the language sequence and complete the GE World Language requirement by taking two or three courses. See "World Languages Placement Tests" under Placement Tests on the College of Liberal Arts and Sciences website.

Semester hours earned for these courses vary by language. Students should be sure to take the placement test for the language of interest and should be aware of the course sequence required to fulfill the GE requirement in World Languages for that particular language.

Once the World Languages requirement is completed, a student may earn up to an additional 8 s.h. of college credit while studying a world language. See Furthering Language Incentive Program (FLIP) on the College of Liberal Arts and Sciences website.

Students may use the following language course sequences to fulfill the World Languages requirement. To avoid duplication or regression, consult the appropriate language department before registering for courses.

American Sign Language
Courses in American Sign Language (ASL) are offered by the American Sign Language Program. The following sequence fulfills the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL:1001</td>
<td>American Sign Language I</td>
<td>5</td>
</tr>
<tr>
<td>ASL:1002</td>
<td>American Sign Language II</td>
<td>5</td>
</tr>
<tr>
<td>ASL:2001</td>
<td>American Sign Language III</td>
<td>5</td>
</tr>
<tr>
<td>ASL:2002</td>
<td>American Sign Language IV</td>
<td>5</td>
</tr>
</tbody>
</table>

Students with previous knowledge of American Sign Language should consult the ASL program for placement.

Arabic
Courses in Arabic are offered by the Department of French and Italian. The following sequence fulfills the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARAB:1001</td>
<td>Elementary Modern Standard Arabic I</td>
<td>5</td>
</tr>
<tr>
<td>ARAB:1002</td>
<td>Elementary Modern Standard Arabic II</td>
<td>5</td>
</tr>
<tr>
<td>ARAB:2001</td>
<td>Intermediate Modern Standard Arabic I</td>
<td>5</td>
</tr>
<tr>
<td>ARAB:2002</td>
<td>Intermediate Modern Standard Arabic II</td>
<td>5</td>
</tr>
</tbody>
</table>

Students with previous knowledge of Arabic should consult the department for appropriate placement.

Chinese
Courses in Chinese are offered by the Department of Asian and Slavic Languages and Literatures. For students without previous knowledge of Chinese, the department recommends the following sequence to fulfill the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN:1111</td>
<td>First-Year Chinese: First Semester</td>
<td>5</td>
</tr>
<tr>
<td>CHIN:1112</td>
<td>First-Year Chinese: Second Semester</td>
<td>5</td>
</tr>
<tr>
<td>CHIN:2101</td>
<td>Second-Year Chinese: First Semester</td>
<td>5</td>
</tr>
</tbody>
</table>
Students without previous knowledge of Greek should fulfill the GE CLAS Core World Languages requirement. Heritage learners and students who have studied Chinese abroad may be able to fulfill the requirement by substituting CHIN:2103 Accelerated Second-Year Chinese: First Semester and CHIN:2104 Accelerated Second-Year Chinese: Second Semester for CHIN:2101 and CHIN:2102. Consult the department for more information.

**French**

Courses in French are offered by the Department of French and Italian. For students without previous knowledge of French, the department recommends the following sequence to fulfill the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN:1001</td>
<td>Elementary French I</td>
<td>5</td>
</tr>
<tr>
<td>FREN:1002</td>
<td>Elementary French II</td>
<td>5</td>
</tr>
<tr>
<td>FREN:2001</td>
<td>Intermediate French I</td>
<td>5</td>
</tr>
<tr>
<td>FREN:2002</td>
<td>Intermediate French II</td>
<td>5</td>
</tr>
</tbody>
</table>

Students may use varied combinations of French language courses approved to fulfill the GE CLAS Core World Languages requirement. Those with previous knowledge of French may be able to fulfill the requirement by substituting FREN:1010 First-Year French Review for FREN:1001 and FREN:1002 in the sequence above. Some students may be evaluated as ready for FREN:2001 or FREN:2002. Consult the department for appropriate placement.

**German**

Courses in German are offered by the Department of German. For students without previous knowledge of German, the department recommends the following sequence to fulfill the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRMN:1001</td>
<td>Elementary German I</td>
<td>4</td>
</tr>
<tr>
<td>GRMN:1002</td>
<td>Elementary German II</td>
<td>4</td>
</tr>
<tr>
<td>GRMN:2001</td>
<td>Intermediate German I</td>
<td>4</td>
</tr>
<tr>
<td>GRMN:2002</td>
<td>Intermediate German II</td>
<td>4</td>
</tr>
</tbody>
</table>

Students may use varied combinations of German language courses approved to fulfill the GE CLAS Core World Languages requirement. Those with previous knowledge of German may be able to fulfill the requirement by substituting GRMN:1010 First-Year German Review for GRMN:1001 and GRMN:1002 in the sequence above. Some students may be evaluated as ready for GRMN:2001 or GRMN:2002. Consult the department for appropriate placement.

The department also offers accelerated intensive courses, GRMN:1020 Intensive Elementary German and GRMN:2020 Intensive Intermediate German, which may be appropriate for students with strong language learning abilities or experience. The intensive courses may be combined with nonintensive courses to create other sequences that may be used to fulfill the GE CLAS Core World Languages requirement. Consult the department to identify an appropriate course sequence.

**Greek**

Courses in Greek are offered by the Department of Classics. Students without previous knowledge of Greek should fulfill the GE CLAS Core World Languages requirement with the following sequence.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLSG:1001</td>
<td>Classical and New Testament Greek I</td>
<td>3-5</td>
</tr>
<tr>
<td>CLSG:1002</td>
<td>Classical and New Testament Greek II</td>
<td>3-5</td>
</tr>
<tr>
<td>CLSG:2001</td>
<td>Second-Year Greek I</td>
<td>3</td>
</tr>
<tr>
<td>CLSG:2002</td>
<td>Second-Year Greek II</td>
<td>3</td>
</tr>
</tbody>
</table>

Students with previous knowledge of Greek should consult the department for appropriate placement.

**Italian**

Courses in Italian are offered by the Department of French and Italian. Students without previous knowledge of Italian should fulfill the GE CLAS Core World Languages requirement with the following sequence.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL:1101</td>
<td>Elementary Italian I</td>
<td>5</td>
</tr>
<tr>
<td>ITAL:1102</td>
<td>Elementary Italian II</td>
<td>5</td>
</tr>
<tr>
<td>ITAL:2203</td>
<td>Intermediate Italian I</td>
<td>4</td>
</tr>
<tr>
<td>ITAL:2204</td>
<td>Intermediate Italian II</td>
<td>4</td>
</tr>
</tbody>
</table>

Students with strong language learning abilities or a background in another Romance language may be able to complete the requirement by substituting ITAL:3002 Intensive Elementary Italian (course number for ITAL:3002 will change to ITAL:1103 effective winter 2021) for ITAL:1101 and ITAL:1102 in the sequence above. Consult the department for appropriate placement.

**Japanese**

Courses in Japanese are offered by the Department of Asian and Slavic Languages and Literatures. For students without previous knowledge of Japanese, the department recommends the following sequence to fulfill the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JPNS:1001</td>
<td>First-Year Japanese: First Semester</td>
<td>5</td>
</tr>
<tr>
<td>JPNS:1002</td>
<td>First-Year Japanese: Second Semester</td>
<td>5</td>
</tr>
</tbody>
</table>

Students may use varied combinations of Japanese language courses approved to fulfill the GE CLAS Core World Languages requirement. Those with previous knowledge of Japanese should consult the department for appropriate placement.

**Korean**

Courses in Korean are offered by the Department of Asian and Slavic Languages and Literatures. For students without previous knowledge of Korean, the department recommends the following sequence to fulfill the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KORE:1101</td>
<td>First-Year Korean: First Semester</td>
<td>4</td>
</tr>
<tr>
<td>KORE:1102</td>
<td>First-Year Korean: Second Semester</td>
<td>4</td>
</tr>
</tbody>
</table>
KORE:2101 Second-Year Korean: First Semester 4
KORE:2102 Second-Year Korean: Second Semester 4

Students with previous knowledge of Korean should consult the department for appropriate placement.

**Latin**

Courses in Latin are offered by the Department of Classics. Students without previous knowledge of Latin should fulfill the GE CLAS Core World Languages requirement with the following sequence. Students must take both CLSL:2001 and CLSL:2002 in order to fulfill the World Languages requirement. These courses require a similar knowledge of Latin, but one focuses on poetry and the other on prose. Other world languages permit a student to complete the last courses in the sequence to meet the GE CLAS Core requirement since the final course is more difficult than the previous ones. This is not true with the Latin sequence, and thus, both courses must be successfully completed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLSL:1001</td>
<td>Elementary Latin I</td>
<td>3-5</td>
</tr>
<tr>
<td>CLSL:1002</td>
<td>Elementary Latin II</td>
<td>3-5</td>
</tr>
<tr>
<td>CLSL:2001</td>
<td>World of Cicero</td>
<td>3</td>
</tr>
<tr>
<td>CLSL:2002</td>
<td>Golden Age of Roman Poetry</td>
<td>3</td>
</tr>
</tbody>
</table>

Students with previous knowledge of Latin should consult the department for appropriate placement.

**Portuguese**

Courses in Portuguese are offered by the Department of Spanish and Portuguese. Two sequences in Portuguese are approved to fulfill the GE CLAS Core World Language requirement. All courses are open to entering first-year students.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORT:2000</td>
<td>Accelerated Elementary Portuguese</td>
<td>5</td>
</tr>
<tr>
<td>PORT:2500</td>
<td>Accelerated Intermediate Portuguese</td>
<td>5</td>
</tr>
</tbody>
</table>

Students may also substitute PORT:2010 Elementary Portuguese I and PORT:2015 Elementary Portuguese II for PORT:2000 in the sequence above.

Students with previous knowledge of Portuguese should consult the department for appropriate placement.

**Russian**

Courses in Russian are offered by the Department of Asian and Slavic Languages and Literatures. Students without previous knowledge of Russian should fulfill the GE CLAS Core World Languages requirement with the following sequence.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSS:1111</td>
<td>First-Year Russian I</td>
<td>5</td>
</tr>
<tr>
<td>RUSS:1112</td>
<td>First-Year Russian II</td>
<td>5</td>
</tr>
<tr>
<td>RUSS:2111</td>
<td>Second-Year Russian I</td>
<td>4</td>
</tr>
<tr>
<td>RUSS:2112</td>
<td>Second-Year Russian II</td>
<td>4</td>
</tr>
</tbody>
</table>

Students with previous knowledge of Russian should consult the department for appropriate placement.

**Sanskrit**

Courses in Sanskrit are offered by the Department of Asian and Slavic Languages and Literatures. Students without previous knowledge of Sanskrit should fulfill the GE CLAS Core World Languages requirement with the following sequence. Each of these courses is open to entering first-year students.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOAS:2901/ CLSA:2901</td>
<td>First-Year Sanskrit: First Semester</td>
<td>4</td>
</tr>
<tr>
<td>SOAS:2902/ CLSA:2902</td>
<td>First-Year Sanskrit: Second Semester</td>
<td>4</td>
</tr>
<tr>
<td>SOAS:3901/ CLSA:3901</td>
<td>Second-Year Sanskrit: First Semester</td>
<td>3</td>
</tr>
<tr>
<td>SOAS:3902/ CLSA:3902</td>
<td>Second-Year Sanskrit: Second Semester</td>
<td>3</td>
</tr>
</tbody>
</table>

Students with previous knowledge of Sanskrit should consult the department for appropriate placement.

**Spanish**

Courses in Spanish are offered by the Department of Spanish and Portuguese. For students without previous knowledge of Spanish, the department recommends the following sequence to fulfill the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN:1001</td>
<td>Elementary Spanish I</td>
<td>5</td>
</tr>
<tr>
<td>SPAN:1002</td>
<td>Elementary Spanish II</td>
<td>5</td>
</tr>
<tr>
<td>SPAN:1501</td>
<td>Intermediate Spanish I</td>
<td>5</td>
</tr>
<tr>
<td>SPAN:1502</td>
<td>Intermediate Spanish II</td>
<td>5</td>
</tr>
</tbody>
</table>

Students may use varied combinations of Spanish language courses to fulfill the GE CLAS Core World Languages requirement. Those with previous knowledge of Spanish may be able to fulfill the requirement by substituting SPAN:1003 Elementary Spanish Review for SPAN:1001 and SPAN:1002 in the sequence above.

The summer course SPAN:1004 Accelerated Elementary Spanish, which combines SPAN:1001 and SPAN:1002, may be appropriate for some students.

The accelerated course SPAN:1503 Accelerated Intermediate Spanish, which combines SPAN:1501 and SPAN:1502, may be appropriate for some students.

The accelerated course SPAN:1505 Intermediate Spanish for Heritage Speakers may be appropriate for other students.

Pappajohn Education Center students may use the following sequence to fulfill the GE CLAS Core World Languages requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS:1002</td>
<td>Elementary Spanish I</td>
<td>4</td>
</tr>
<tr>
<td>CLAS:1003</td>
<td>Elementary Spanish II</td>
<td>4</td>
</tr>
<tr>
<td>CLAS:1501</td>
<td>Intermediate Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>CLAS:1502</td>
<td>Intermediate Spanish II</td>
<td>3</td>
</tr>
</tbody>
</table>

Students with previous knowledge of Spanish should take the language placement test in Spanish to help determine proper placement.

**Swahili**

Courses in Swahili are offered by the Department of French and Italian. The following sequence fulfills the GE CLAS Core World Languages requirement. Each of these courses is open to entering first-year students.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWAH:1001</td>
<td>Elementary Swahili I</td>
<td>4</td>
</tr>
<tr>
<td>SWAH:1002</td>
<td>Elementary Swahili II</td>
<td>4</td>
</tr>
</tbody>
</table>
Students with previous knowledge of Swahili should consult the department for appropriate placement.

Other Course Sequences
A student who successfully completes a four-semester world language sequence that has not been approved for the GE CLAS Core may have the sequence substituted for a proficiency test to fulfill the GE CLAS Core requirement.

Students who complete a world language sequence this way should notify the department that offers the sequence; the department will contact Graduation Analysis in the Office of the Registrar, which will update a student’s degree audit to show fulfillment of the World Languages requirement.

Natural, Quantitative, and Social Sciences

Natural Sciences

Courses in the Natural Sciences area explore the scope and major concepts of a scientific discipline. Students learn the attitudes and practices of scientific investigators: logic, precision, experimentation, tentativeness, and objectivity. In courses with a laboratory component, students gain experience in the methods of scientific inquiry.

All students must complete at least 7 s.h. of coursework in the Natural Sciences area, including at least one natural science lab component. The following courses are approved for the area; courses with a lab component are noted “(lab).”

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH:1301</td>
<td>Human Origins</td>
<td>3</td>
</tr>
<tr>
<td>ASTR:1070</td>
<td>Stars, Galaxies, and the Universe (with lab 4 s.h.; without lab 3 s.h.)</td>
<td>3-4</td>
</tr>
<tr>
<td>ASTR:1079</td>
<td>Introductory Astronomy Laboratory (lab)</td>
<td>1</td>
</tr>
<tr>
<td>ASTR:1080</td>
<td>Exploration of the Solar System (with lab 4 s.h.; without lab 3 s.h.)</td>
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<tr>
<td>ASTR:1085</td>
<td>Citizen Astronomy</td>
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<tr>
<td>ASTR:1091</td>
<td>Life in the Universe</td>
<td>3</td>
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<td>ASTR:1771</td>
<td>Introductory Astronomy I: Basic Astrophysics and Planetary Astronomy (lab)</td>
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<td>ASTR:1772</td>
<td>Introductory Astronomy II: Stellar, Galactic, and Extragalactic Astronomy (lab)</td>
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<td>BIOL:1140</td>
<td>Human Biology: Nonmajors (lab)</td>
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<td>BIOL:1141</td>
<td>Human Biology: Health Professions (lab)</td>
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<td>BIOL:1251</td>
<td>How the Brain Works (and Why it Doesn’t)</td>
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<tr>
<td>BIOL:1260</td>
<td>Plants and Human Affairs</td>
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<td>BIOL:1261</td>
<td>Introduction to Botany (lab)</td>
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<tr>
<td>BIOL:1370</td>
<td>Understanding Evolution (formerly Ecology and Evolution)</td>
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<td>BIOL:1411</td>
<td>Foundations of Biology (lab)</td>
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<tr>
<td>BIOL:1412</td>
<td>Diversity of Form and Function (lab)</td>
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<td>CHEM:1050</td>
<td>Chemistry of Our World</td>
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<td>CHEM:1060</td>
<td>Technology and Society Laboratory (lab)</td>
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<td>CHEM:1070</td>
<td>General Chemistry I</td>
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<td>CHEM:1080</td>
<td>General Chemistry II</td>
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<td>CHEM:1100</td>
<td>Chemistry in Industry and the Economy</td>
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<td>CHEM:1110</td>
<td>Principles of Chemistry I (lab)</td>
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<tr>
<td>CHEM:1120</td>
<td>Principles of Chemistry II (lab)</td>
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<tr>
<td>CHEM:1160</td>
<td>Principles of Chemistry Lab (lab)</td>
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<tr>
<td>EES:1030/CEE:1030</td>
<td>Introduction to Earth Science (with lab 4 s.h.; without lab 3 s.h.)</td>
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</tr>
<tr>
<td>EES:1031/CEE:1031</td>
<td>Introduction to Earth Science Laboratory (lab; students must have previously completed EES:1030/CEE:1030 without the lab)</td>
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<tr>
<td>EES:1040</td>
<td>Evolution and the History of Life (with lab 4 s.h.; without lab 3 s.h.)</td>
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<tr>
<td>EES:1050</td>
<td>Introduction to Geology (lab)</td>
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<tr>
<td>EES:1061/ ANTH:1061/ASTR:1061</td>
<td>Big Ideas: Evolution of Life on Earth and the Search for Life in the Universe (lab)</td>
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<tr>
<td>EES:1070</td>
<td>Age of Dinosaurs (lab)</td>
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<tr>
<td>EES:1080/ENVS:1080</td>
<td>Introduction to Environmental Science (with lab 4 s.h.; without lab 3 s.h.; not for students who have taken EES:1085 or ENVS:1085)</td>
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<tr>
<td>EES:1085/ENVS:1085</td>
<td>Fundamentals of Environmental Science (lab; not for students who have taken EES:1080 or ENVS:1080)</td>
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<td>Introduction to Environmental Sciences Laboratory (lab)</td>
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<td>EES:1290</td>
<td>Energy and the Environment</td>
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<td>EES:1400</td>
<td>Natural Disasters</td>
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<td>GEOG:1020</td>
<td>The Global Environment</td>
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<td>GEOG:1021</td>
<td>The Global Environment Lab (lab)</td>
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<td>HHP:1100</td>
<td>Human Anatomy</td>
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<td>HHP:1110</td>
<td>Human Anatomy Laboratory (lab)</td>
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<td>HHP:1150</td>
<td>Human Anatomy Lecture with Lab (lab)</td>
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<td>HHP:1300</td>
<td>Fundamentals of Human Physiology</td>
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<tr>
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<td>Title</td>
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<tr>
<td>HHP:1400</td>
<td>Human Anatomy and Physiology</td>
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<tr>
<td>HHP:2310</td>
<td>Nutrition and Health</td>
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<td>HONR:1640</td>
<td>Honors Seminar in Natural Sciences</td>
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<tr>
<td>PCOL:2220</td>
<td>Drug Use and Abuse</td>
<td>3</td>
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<tr>
<td>PHYS:1100</td>
<td>From Quarks to Quasars (with lab 4 s.h.; without lab 3 s.h.)</td>
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<tr>
<td>PHYS:1200</td>
<td>Physics of Everyday Experience</td>
<td>3</td>
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<tr>
<td>PHYS:1400</td>
<td>Basic Physics (with lab 4 s.h.; without lab 3 s.h.)</td>
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<td>PHYS:1409</td>
<td>Basic Physics Lab (lab)</td>
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<td>PHYS:1410</td>
<td>Physics of Sound (with lab 4 s.h.; without lab 3 s.h.)</td>
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<td>PHYS:1511</td>
<td>College Physics I (lab)</td>
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<tr>
<td>PHYS:1512</td>
<td>College Physics II (lab)</td>
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<tr>
<td>PHYS:1611</td>
<td>Introductory Physics I (lab)</td>
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<td>PHYS:1612</td>
<td>Introductory Physics II (with lab 4 s.h.; without lab 3 s.h.)</td>
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<td>PHYS:1619</td>
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<td>PHYS:1701</td>
<td>Physics I (lab)</td>
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<td>PHYS:1702</td>
<td>Physics II (lab)</td>
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<td>MATH:1350</td>
<td>Quantitative Reasoning for Business</td>
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<tr>
<td>MATH:1380</td>
<td>Calculus and Matrix Algebra for Business</td>
<td>4</td>
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<tr>
<td>MATH:1440</td>
<td>Mathematics for the Biological Sciences</td>
<td>4</td>
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<tr>
<td>MATH:1460</td>
<td>Calculus for the Biological Sciences</td>
<td>4</td>
</tr>
<tr>
<td>MATH:1550</td>
<td>Engineering Mathematics I: Single Variable Calculus</td>
<td>4</td>
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<tr>
<td>MATH:1850</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>PHIL:1636</td>
<td>Principles of Reasoning: Argument and Debate</td>
<td>3</td>
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<tr>
<td>POLI:1050/RELS:1050</td>
<td>Big Ideas: Introduction to Information, Society, and Culture</td>
<td>3</td>
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<td>POLI:1700</td>
<td>Introduction to Political Analysis</td>
<td>3</td>
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<tr>
<td>PSY:2811</td>
<td>Research Methods and Data Analysis in Psychology</td>
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<tr>
<td>STAT:1010</td>
<td>Statistics and Society</td>
<td>3</td>
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<tr>
<td>STAT:1020/PSQF:1020</td>
<td>Elementary Statistics and Inference</td>
<td>3</td>
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<tr>
<td>STAT:1030</td>
<td>Statistics for Business</td>
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<tr>
<td>STAT:2010</td>
<td>Statistical Methods and Computing</td>
<td>3</td>
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</table>

### Quantitative or Formal Reasoning

Courses in the Quantitative or Formal Reasoning area help develop analytical skills through the practice of quantitative or formal symbolic reasoning. Courses focus on presentation and evaluation of evidence and argument; understanding the use and misuse of data; and organization of information in quantitative or other formal symbolic systems, including those used in computer science, linguistics, mathematics, philosophy, and statistics.

All students must complete at least 3 s.h. of coursework in the Quantitative or Formal Reasoning area. Students also may fulfill this GE CLAS Core requirement by completing a course that lists an approved GE CLAS Core course as a prerequisite. The following courses are approved for the area.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>COMM:1117</td>
<td>Theory and Practice of Argument</td>
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<tr>
<td>CPH:1600</td>
<td>Public Health Science: Inquiry and Investigation in Public Health</td>
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<tr>
<td>CS:1020</td>
<td>Principles of Computing</td>
<td>3</td>
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<tr>
<td>CS:1110</td>
<td>Introduction to Computer Science</td>
<td>3</td>
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<tr>
<td>CS:1210</td>
<td>Computer Science I: Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>LING:1050</td>
<td>Language and Formal Reasoning</td>
<td>3</td>
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<tr>
<td>MATH:1020</td>
<td>Elementary Functions</td>
<td>4</td>
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<td>MATH:1120</td>
<td>Logic of Arithmetic</td>
<td>4</td>
</tr>
<tr>
<td>MATH:1250</td>
<td>Mathematics for Arts and Humanities</td>
<td>3</td>
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<tr>
<td>MATH:1260</td>
<td>PokeMath: The Mathematics of Pokemon Go</td>
<td>3</td>
</tr>
<tr>
<td>MATH:1340</td>
<td>Mathematics for Business</td>
<td>4</td>
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<tr>
<td>MATH:1350</td>
<td>Quantitative Reasoning for Business</td>
<td>4</td>
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<tr>
<td>MATH:1380</td>
<td>Calculus and Matrix Algebra for Business</td>
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<tr>
<td>MATH:1440</td>
<td>Mathematics for the Biological Sciences</td>
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<tr>
<td>MATH:1460</td>
<td>Calculus for the Biological Sciences</td>
<td>4</td>
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<tr>
<td>MATH:1550</td>
<td>Engineering Mathematics I: Single Variable Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH:1850</td>
<td>Calculus I</td>
<td>4</td>
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</tbody>
</table>

### Social Sciences

Courses in the Social Sciences area focus on human behavior and the institutions and social systems that shape and are shaped by that behavior. Courses provide an overview of one or more social science disciplines, their theories, and their methods.

All students must complete at least 3 s.h. of coursework in the Social Sciences area. The following courses are approved for the area.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ANTH:1101/IS:1101</td>
<td>Cultural Anthropology</td>
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<tr>
<td>ANTH:1401</td>
<td>Language, Culture, and Communication</td>
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<tr>
<td>ANTH:2100</td>
<td>Anthropology and Contemporary World Problems</td>
<td>3</td>
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<tr>
<td>ANTH:2136</td>
<td>Race, Place, and Power: Urban Anthropology</td>
<td>3</td>
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<tr>
<td>ANTH:2261</td>
<td>Human Impacts on the Environment</td>
<td>3</td>
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<tr>
<td>COMM:1170</td>
<td>Communication Theory in Everyday Life</td>
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<tr>
<td>COMM:1174</td>
<td>Media and Society</td>
<td>3</td>
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<tr>
<td>CPH:1400</td>
<td>Fundamentals of Public Health</td>
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<tr>
<td>CRIM:1410</td>
<td>Introduction to Criminology</td>
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<tr>
<td>CSD:3117/LING:3117</td>
<td>Psychology of Language</td>
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<tr>
<td>CSD:3118/LING:3118</td>
<td>Language Acquisition</td>
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</table>
**Culture, Society, and the Arts**

**Diversity and Inclusion**

Courses in the Diversity and Inclusion area help to develop students’ recognition of their positions in an increasingly pluralistic world while fostering an understanding of social and cultural differences. Students reflect critically on their own social and cultural perspectives while increasing their ability to engage with people who have backgrounds or ideas different from their own. Students also explore the historical and structural bases of inequality and the benefits and challenges of diversity.

Transfer credit is not accepted for the Diversity and Inclusion requirement; students must complete this requirement with coursework taken at the University of Iowa.

All students must complete at least 3 s.h. of coursework in the Diversity and Inclusion area. The following courses are approved for the area.

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<thead>
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<tr>
<td>AFAM:1020/AMST:1030</td>
<td>Introduction to African American Culture</td>
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<tr>
<td>AFAM:1030</td>
<td>Introduction to African American Society</td>
<td>3</td>
</tr>
<tr>
<td>AFAM:1130</td>
<td>The History of African American Film</td>
<td>3</td>
</tr>
<tr>
<td>AFAM:1241/MUS:1741</td>
<td>The Soundtrack of Black America</td>
<td>3</td>
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<tr>
<td>AFAM:2064/SOC:2064</td>
<td>African American Families: Urban and Suburban</td>
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<tr>
<td>AFAM:2070/COMM:2069</td>
<td>Black Television Culture</td>
<td>3</td>
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<tr>
<td>AFAM:2500</td>
<td>Black Culture and Experience: Contemporary Issues</td>
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<td>AMST:2025</td>
<td>Diversity in American Culture</td>
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<tr>
<td>ANTH:2151/GWSS:2151/IS:2151</td>
<td>Global Migration in the Contemporary World</td>
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<tr>
<td>ANTH:2165/AMST:2165/NAIS:2165</td>
<td>Native Peoples of North America</td>
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<td>ARTS:2100</td>
<td>Printmaking and Politics of Protest</td>
<td>3</td>
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<td>ASIA:2222/GWSS:2222/WLLC:2222</td>
<td>Women in Premodern East Asian Literature</td>
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<td>CCCC:2220</td>
<td>Foundations of Critical Cultural Competence</td>
<td>3</td>
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<tr>
<td>CINE:1195</td>
<td>Video Games and Identity</td>
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<td>CINE:1625</td>
<td>Race, Gender, and Sexuality on Screen</td>
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<td>CLSA:2800</td>
<td>Race and Ethnicity in the Ancient Mediterranean World</td>
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<tr>
<td>COMM:1168</td>
<td>Music and Social Change</td>
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<tr>
<td>COMM:1898/LATS:1898</td>
<td>Introduction to Latina/o/x Communication and Culture</td>
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<tr>
<td>CSD:1200</td>
<td>Intellectual and Developmental Disabilities</td>
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DANC:2065 Perfroming Power/Performing Protest: The Body, Identity, and the Image 3
DANC:2085 Introduction to Afro-Caribbean Movement Practices (GE status effective fall 2021) 3
DST:1101 Introduction to Disability Studies 3
EDTL:2670 Peacebuilding, Singing, and Writing in a Prison Choir 3
EDTL:4900 Foundations of Special Education 3
EPLS:1240 Finding Your Path in Higher Education 3
GRMN:2600 Witch Hunts in Fact and Fiction: A Global History of Exclusion 3-4
GRMN:2620/ WLLC:2620 Anne Frank and Her Story 3-4
GRMN:2675 The Politics of Memory: Holocaust, Genocide, and 9/11 3-4
GWSS:1001 Introduction to Gender, Women’s, and Sexuality Studies 3
GWSS:1002 Diversity and Power in the U.S. 3
HHP:2280 Cultural Competency in Health Promotion 3
HIST:1040 Diversity in History 3
HIST:2267/ AFAM:2267 African American History to 1877: From Slave Cabin to Senate Floor 3
HIST:2268/ AFAM:2268 African American History Since the Civil War 3
IS:2020 World Events Today! 3
ITAL:2660 The Italian American Experience 3
JMC:2500 Community Media 3
JMC:2600 Freedom of Expression 3
LAT:2280/ HIST:2280/ SPAN:2280 Introduction to Latina/o/x Studies 3
LING:1070 Language Attitudes: Is How You Sound How You Are Seen? 3
MATH:1210 Diverse Perspectives in the Mathematical Sciences (GE status effective fall 2021) 3
POLI:1601 Introduction to Social Media and Politics 3
POLI:1800 Introduction to the Politics of Class and Inequality 3
POLI:1900 Introduction to the Politics of Race 3
POLI:1950 Introduction to the Politics of Religion 3
PSY:1501 Everyone’s a Little Bit Biased: The Science Behind Prejudice 3
RELS:1015 Global Religious Conflict and Diversity 3
RELS:2330 Wealth, Inequality, and Islam 3
RELS:2620 Politics, Sex, and the Bible 3
RHET:2135 Rhetorics of Diversity and Inclusion 3
RUSS:2232 Romani (Gypsy) Cultures of Eastern Europe 3
SJUS:1001 Introduction to Social Justice 3
SOC:1030 Contemporary Social Problems 3-4
SOC:2830 Race and Ethnicity 3
SPAN:2050 Spanish in the United States 3
SRM:1045 Diversity and Inclusion in Healthy Living 3
SPST:1074/ AMST:1074/ GWSS:1074 Inequality in American Sport 3
THTR:2320 Playwriting in a Global World 3
THTR:2405 Staging Americans: U.S. Cultures Through Theatre and Performance 3
WLLC:1200/ DST:1200/ GHS:1200/ GRMN:1200 Disabilities and Inclusion in Writing and Film Around the World 3
WRIT:2100 Writing and Community Outreach 3

**Historical Perspectives**

Courses in the Historical Perspectives area help students comprehend the historical processes of change and continuity; develop the ability to generalize, explain, and interpret historical change; and understand the past in its own terms.

All students must complete at least 3 s.h. of coursework in the Historical Perspectives area. The following courses are approved for the area.

**Code**  **Title**  **Hours**
ANTH:1201 World Archaeology 3
ARTH:1010 Art and Visual Culture 3
ARTH:1050 From Cave Paintings to Cathedrals: Survey of Western Art I 3
ARTH:1060 From Mona Lisa to Modernism: Survey of Western Art II 3
ARTH:1070 Asian Art and Culture 3
Astronomy, B.S.

<table>
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<tr>
<th>Code</th>
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<th>Hours</th>
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<td>ARTH:2320/CLSA:2226</td>
<td>Ancient Art from the Great Pyramids of Egypt to the Colosseum in Rome (GE status effective fall 2021)</td>
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<tr>
<td>ARTH:2920</td>
<td>Introduction to American Art</td>
<td>3</td>
</tr>
<tr>
<td>CLSA:1181/GHS:1181</td>
<td>Ancient Medicine</td>
<td>3</td>
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<tr>
<td>CLSA:1830</td>
<td>Greek Civilization</td>
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<td>CLSA:1840</td>
<td>Roman Civilization</td>
<td>3</td>
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<tr>
<td>CLSA:2127/JPNS:2127</td>
<td>Global Manuscript Cultures</td>
<td>3</td>
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<td>FREN:3120</td>
<td>French Civilization</td>
<td>3</td>
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<tr>
<td>HIST:1010</td>
<td>History Matters</td>
<td>3</td>
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<tr>
<td>HIST:1016</td>
<td>The History That Made Our World</td>
<td>3</td>
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<tr>
<td>HIST:1261</td>
<td>American History to 1877</td>
<td>3</td>
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<tr>
<td>HIST:1262</td>
<td>American History 1877-Present</td>
<td>3</td>
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<td>The West and the World: Ancient</td>
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<td>HIST:1402</td>
<td>The West and the World: Medieval</td>
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<td>HIST:1403</td>
<td>The West and the World: Modern</td>
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<td>HIST:1601/ASIA:1601</td>
<td>Civilizations of Asia: China from Origins to the 17th Century</td>
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<td>HIST:1602/ASIA:1602</td>
<td>Civilizations of Asia: China from the 17th Century to the Present</td>
<td>3</td>
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<td>HIST:1604/ASIA:1604</td>
<td>Civilizations of Asia: Japan</td>
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**International and Global Issues**

Courses in the International and Global Issues area focus predominantly on countries or issues outside the United States, encouraging students to understand contemporary issues from an international perspective. Students develop knowledge of one or more contemporary global or international issues, gain a greater awareness of varied international perspectives, and improve their skills of analysis and critical inquiry.

All students must complete at least 3 s.h. of coursework in the International and Global Issues area. The following courses are approved for the area.

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Literary, Visual, and Performing Arts

Courses in the Literary, Visual, and Performing Arts area provide students with opportunities to appreciate the arts and to analyze them within their historical and theoretical contexts. They also help students develop the analytic, expressive, and imaginative abilities necessary for understanding, appreciating, and creating art.

All students must complete at least 3 s.h. of coursework in the Literary, Visual, and Performing Arts area. The following courses are approved for the area.

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